FY2014 4th Qtr. Final Output Report Table of Contents

EPA Strategic Plan GOAL # 2

PROTECTING AMERICA'S WATERS Page

DRINKING WATER SECTION

Objective 2.1	Protect Human Health	
Task 1.1.1	Drinking Water Plan Review	3
Task 1.1.2	Drinking Water Technical Assistance	
Task 1.1.3	Operator Certification	
Task 1.1.4	New and Existing System Capacity Development	
Task 1.1.5	Drinking Water Monitoring Assistance Program (MAP)	
Task 1.1.6	Drinking Water Monitoring and Reporting	
Task 1.1.7	Source Water Protection	
	GROUNDWATER SECTION	
Objective 2.1	Protect Human Health	
Task 1.2.1	Groundwater Protection - Permits	16
Task 1.2.2	Groundwater Source Protection	19
	SURFACE WATER SECTION	
Objective 2.2	Protect & Restore Watersheds & Aquatic Ecosystems	
Task 1.3.1	Arizona Pollutant Discharge Elimination System (AZPDES)	23
Task 1.3.2	CWA 401 Certification Review of Federal Permits and Licenses	30
Task 1.3.3	Regional Water Quality Management Planning	36
Task 1.3.4	Surface Water Program Development	
Task 1.3.5	Ambient Monitoring Program	39
Task 1.3.6	106 Monitoring	4
Task 1.3.7	Water Quality Assessment	43
Task 1.3.8	TMDL Development and Implementation	45
Task 1.3.9	NPS Program Management and 319(h) Project Management	50

FY2014 4th Qtr. Final Output Report Table of Contents

EPA	Strategic Plan
-	GOAL#2

PROTECTING AMERICA'S WATERS Page

COMPLIANCE SECTION

Objective 2.1	Protect Human Health	
Task 1.4.1	Drinking Water Compliance and Enforcement	68
Task 1.4.2	Groundwater Compliance and Enforcement	72
Objective 2.2	Protect & Restore Watersheds & Aquatic Ecosystems	
Task 1.4.3	Surface Water Compliance and Enforcement	74
	WATER QUALITY PROGRAM & PLANNING	
Objective 2.1	Protect Human Health	
& 2.2	Protect & Restore Watersheds & Aquatic Ecosystems	
Task 1.5.1	Division and Section Management	
Task 1.5.2	Water Quality Planning	85
Task 1.5.3	Water Quality Data Management	87
Task 1.5.4	WIFA Support.	

TASK/ GRANT	OUTPUT DESCRIPTION	QUANTITY (C	ON, DATE OR CUMULATIVE) A=ACTUAL	RESPONSIBLI SECTION/ STAFF
1.3.4	TASK: Surface Water Program Development Perform support activities for surface water program including development of program procedures and policies. DELIVERABLES:			
PPG NPS in PPG	Finalize implementation procedures for antidegradation, biocriteria, bottom deposits and fish consumption. Antidegradation i) Finalize implementation procedures b) Fish consumption i) Initiate public process ii) Finalize implementation procedures (NPS Strategies 3.A.3)	T = ai) 12/13 bi) 12/13 bii) 6/14	Comment	Surface Water
PPG	Initiate triennial review*. a) Begin stakeholder outreach b) Complete triennial review	T = a) 5/13 b) 4/14	Comment	Surface Water
PPG NPS in PPG	Revisit Lakes Narrative Nutrient Standards a) Complete literature and data review, update data analysis, and refine matrix relationships b) Determine if current matrix approach requires modification. (NPS Strategies 3.A.3)	T = a) 6/13 b) 8/13	Comment	Surface Water

^{*}Dependent upon governor's approval to pursue rulemaking

FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES NPS in PPG {Match}	0.17	11,466	5,045	7,861	24,372
NPS in PPG	0.75	37,824	16,643	25,932	80,398
PPG	0.51	22,501	9,900	15,426	47,828
TOTALS	1.43	71,791	31,588	49,219	152,598

Comments: All deliverables are off target. Deliverables 1a & 1b have been rescheduled for the FY15 workplan. Deliverable 2: ADEQ has continued development of the draft revised standards and anticipates initiating stakeholder outreach in August 2014 and completing the triennial review in January 2015. During FY 14 ADEQ staff continued drafting the proposed rule with substantial time spent verifying reach descriptions and lat/longs for waters in 109.F, 112.G, and App B. Staff also attended webinars and or conference calls on proposed criteria for E.Coli, ammonia and development of narrative nutrient criteria. Due to current rulemaking moratorium, ADEQ is limited to standards modifications approved by the Governor's authorization in December 2013. Deliverable 3 is off target due to contractor delays. Staff has worked closely with contractor to provide needed data to complete the report prior to EPA workshop in Sacramento in August 2014.

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION QUANTITY (CU T=TARGET	UMULATIVE)	RESPONSIBLE SECTION/ STAFF
1.3.5	TASK: Ambient Monitoring Program Conduct ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants. Monitoring to include targeted characterization, planning and/or probabilistic sites in support of 305(b) assessment process. DELIVERABLES:			
PPG NPS in PPG	Ambient monitoring a) Conduct ambient stream and lake monitoring per FY14 sampling and analysis plan throughout Arizona. b) Prepare FY15 sampling and analysis plan for: i) rivers and streams. ii) lakes (NPS Strategies 3.A.1)	T = a) Quarterly b) 5/14	A = 5/14	Surface Water
NPS in PPG	2) Fish tissue and sediment sampling program a) Conduct fish tissue and sediment sampling on Arizona lakes and reservoirs for presence of mercury to support fish consumption advisory programs per FY14 sampling plan. b) Prepare FY15 sampling plan for fish tissue monitoring. (NPS Strategies 3.A.1)	T = a) Quarterly b) 2/14	A = 5/14	Surface Water
NPS PA 1	3) Complete groundwater basins reports for: a) Harquahala b) Tonto (NPS Strategies 3.A.1)	T = a) 12/13 b) 6/14	A = 6/14 A = 12/13	Surface Water

FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES NPS in PPG {Match}	0.17	4,554	2,004	3,122	9,680
WQARF	0.58	21,417	9,423	14,683	45,524
WQARF NPS in PPG {Match}	1.57	75,935	33,411	52,060	161,406
WQARF NPS Proj 24 [Match]	0.84	38,437	16,912	26,352	81,701
106 Monitoring - 3	0.83	35,210	15,492	24,139	74,842
NPS in PPG	0.96	48,175	21,197	33,028	102,400
PPG	0.84	34,201	15,048	23,448	72,697
NPS P&A (Base)	0.17	11,466	5,045	7,861	24,372
Contracts: USGS (PPG)					85,000
Contracts: Ambient Sampling (NPS in PPG)					40,000
TOTALS	5.96	269,395	118,532	184,693	697,622

Comments - TASK 1.3.5:

Del. 2a: The Fish sampling plan was off target for FY14. Fish tissue sampling will be on a fiscal year schedule and included in one comprehensive ambient sampling and analysis plan beginning in FY15.

147 surface water samples were collected during FY14. Over 36 sites were sampled quarterly at primarily coldwater sites (<5,000 feet) throughout Arizona. 24 of the 36 sites were randomly selected for a state-wide probabilistic assessment.

51 groundwater samples were collected during FY14 in the Lower Gila and Harquahala basins. Reports were completed for the Harquahala and Tonto basins.

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATH QUANTITY (CUMULA) T=TARGET A=ACT	TIVE) SECTION/
1.3.6	TASK: 106 Monitoring		
	Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy.		
106 Mon-3 NPS in PPG	DELIVERABLES: 1) Physical integrity a) Evaluate the effectiveness of using relative bed stability as a physical integrity tool by stream type. i) Submit final report to EPA (NPS Strategies 3.A.3)	T = ai) 6/14 A = 6	Surface Water
NPS in PPG	2) Intermittent streams a) Complete the final report summarizing the results of the intermittent stream sampling and evaluating the effectiveness of using the perennial IBI on intermittent streams to develop intermittent stream biocriteria for water quality standards. Send final report to EPA. (NPS Strategies 3.A.1 & 3.A.3)	T = 11/13 A = 3	Surface Water
NPS in PPG	Conduct nutrient monitoring for Rivers and Streams per FY14 sampling and analysis plan. (NPS Strategies 3.A.1)	T = Quarterly A = 6/3	0/14 Surface Water
106 Mon-3	Effluent dependent waters a) Conduct monitoring according to SAP for effluent dependent waters.	T = a) 6/14 A = 6	Surface Water
	5) Participate in the 2013 and 2014 National River and Stream Survey.a) Conduct field work for all wadeable sites.	T = a) 10/14 Ongs	Surface Water

FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQARF NPS in PPG {Match}	0.17	8,568	3,770	5,874	18,212
106 Monitoring - 3	0.92	40,274	17,721	27,611	85,606
NPS in PPG	0.66	33,383	14,689	22,887	70,958
Contract: River & Streams (106 Mon-3)			- 111-7		29,000
TOTALS	1.75	82,225	36,180	56,372	203,776

Comments - TASK 1.3.6:

Reports were completed for two contracts, Physical Integrity (Del.#1) and Intermittent stream (Del.#2). Natural Channel Design sampled approximately 30 sites to assess Relative Bed Stability as a new standard. Ecoanalysist analyzed existing intermittent stream data to evaluate new metrics for the development of an intermittent Index of Biological Integrity.

Del.#4: Sampling was completed at 1 EDW site in FY14. The Santa Cruz River was sampled quarterly.

Del.#5: 25 of the 28 National River and Stream Assessment sites have been sampled. The last three sites will be sampled during July of 2014.

TASK/ GRANT	OUTPUT DESCRIPTION	QUANTITY (C	ON, DATE OR CUMULATIVE) A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.7	TASK: 305(b) Water Quality Assessment Report and 303(d) List Develop Integrated Report and list of impaired waters. DELIVERABLES:			
PPG NPS in PPG	Final 2012-2014 305(b) Integrated Report and 303(d)-List. a) 60-day public comment period begins b) 45-day AAR Notice begins c) Submit 303(d) List to EPA for approval (NPS Strategy 3.A.1)	T = a) 9/13 b) 2/14 c) 4/14	A = 4/1/14 Comment Comment	Surface Water
PPG NPS in PPG	2) Identify waters that were either delisted or showing water quality improvements as candidates for SP-12 or W-10 success stories. Improvements in both nonpoint and point sources will be evaluated. a) Develop list of candidate waters b) Draft success stories and submit to EPA (NPS Strategy 4.B.1)	a) 2/14 b) 6/14	A = 2/26/14 Comment	Surface Water
	3) Finalize 2010 Assessment a) Update 2010 303(d) List based upon EPA R9 partial approval/disapproval b) Finalize 2010 305(b) Report upon resolution of Pinto Creek 4A appeal (NPS Strategy 3.A.1)	T = a) 8/13 b) 10/13	A = 8/13 Comment	Surface Water

FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
NPS in PPG	1.12	57,399	25,256	39,352	122,006
PPG	0.46	23,761	10,455	16,290	50,506
TOTALS	1.58	81,160	35,711	55,642	172,512

Del #1: The 2010 Pinto Creek 4A appeal was tentatively resolved late in FY14. The drawn out appeal process delayed the release of the 2012/14 Integrated report until April 2014. Revisions and responses to comments are ongoing and expected to be completed in Q1 FY15 followed by A.A.R. publication and submittal to EPA for approval. FY15 Workplan has been revised.

Del #2: The TMDL and WQIP programs identified candidate waters for success stories (Verde River, LCR, Gibson mine, and Tonto/Christopher Creek) in February produced no success stories. Resources were concentrated on drafting and revising the NPS 5-yr plan, preparing the 2012/14 IR and Watson Lake TMDL for public comment, developing responses to comments and initiating the Santa Cruz project.

Del #3: The 2010 webpage and report will be revised to show that it is final once the appeal has been officially withdrawn/dismissed on July 7, 2014.

Additional tasks: The annual call for external data submissions went out April 9th. To date we have received data from 20 sources. Data is being loaded into the ADEQ Water Quality Database and will be used in future Assessments.

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.8	TASK: TMDL Development and Implementation Develop TMDL studies and implementation plans to improve surface water quality. Conduct effectiveness monitoring to determine improvements in water quality after BMPs have been implemented. DELIVERABLES:		
PPG NPS in PPG	TMDL Reports Submit 6 TMDL reports to EPA for final approval by June 2014. Complete 1st (30 day) public notice for 3 additional TMDLs by June 2014; See Table 1.3.8-1 (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates Comments	Surface Water
PPG NPS in PPG	2) Continuing data collection and analysis for TMDL development. Target is 21 TMDLs on 14 waterbody segments; see Continued TMDL Development Status Table 1.3.8-2. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates Comment	Surface Water
PPG NPS in PPG	3) Develop TMDL implementation plans. a) Complete 3 TMDL implementation plans b) Coordinate efforts with WQIG Unit to develop list of target watersheds for WQIP development (See Task 1.3.9); see Develop Implementation Plans Status Table 1.3.8-4. (NPS Strategy 3.B.3)	T = Semi-Annual Status Table Updates Comments	Surface Water
NPS Proj 24 PPG	4) Conduct effectiveness monitoring. a) Monitor the remedial activities on 3 Measure W waterbodies. b) Support WQIG Unit efforts to determine effectiveness of past 319 projects as discussed in Task 1.3.9, #12. c) Coordinate with WQIG Unit to track progress in meeting WQD Performance Measure on 5 waters. d) Coordinate with NRCS to conduct effectiveness monitoring on NWQI watershed; see Effectiveness Monitoring Status Table 1.3.8-3. (NPS Strategy 4.A.1)	T = Semi-Annual Status Table Updates Comments	Surface Water
	5) Provide quarterly updates to TMDL project tables with description of work completed and updates to specific milestones for projects to be completed by June 30, 2014.	T = Quarterly Updates to TMDL Project Tables Comment	Surface Water

TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY (CUMULATIVE) T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.8	TASK: TMDL Development and Implementation (Cont'd) DELIVERABLES:		
PPG	6) TMDL staff will participate in monthly conference calls to discuss TMDL development, implementation and effectiveness monitoring results. TMDL staff will join EPA Management, ADEQ Management and Planning Staff on a separate quarterly call to discuss budget related issues (see Task 1.5.2, Deliverable 3c).	T = Monthly TMDL Conference Calls Comment	Surface Water
	7) Implement TMDL/319 Kaizen and TMDL and Assessment Unit Staff Workout action items.	T = Provide EPA with quarterly GSD updates	Surface Water

FTE Funding Source	FTE	Personnel	ERE	Indirect	Total
WQFF-AZPDES NPS in PPG {Match}	0.25	6,696	2,946	4,591	14,233
WQARF NPS Proj 24 [Match]	0.50	22,575	9,933	15,477	47,985
PPG	0.08	4,788	2,107	3,283	10,177
NPS in PPG	3.67	189,042	83,178	129,604	401,825
NPS PA I (Base)	0.33	18,168	7,994	12,456	38,618
NPS Proj 24	0.50	22,575	9,933	15,477	47,985
Contract: TMDL Work (Base) (NPS P&A 1)		-			24,000
Contract: TMDL Work (Increm) (NPS P&A 1)					6,000
Contract: MDN Monitoring (NPS in PPG)					14,000
Contract: TMDL Sampling (NPS in PPG)					30,000
TOTALS	5.33	263,844	116,091	180,888	634,823

Del #1: The lower San Pedro *E. coli* TMDL was approved by EPA in November 2013. The 30-day public comment period was completed for the Watson Lake TMDL. There have been significant revisions to the WLA language and targets have been made based upon EPA and City of Prescott comments. Revisions will be completed in Q1 FY15 and a revised draft will be shared with EPA and the City prior to the A.A.R. publication. The Granite Creek TMDL will be revised to incorporate the necessary changes to be consistent with the final Watson Lake TMDL prior to its release for 30-day public comment. The middle Gila River selenium and boron TMDL report has been drafted and peer reviewed and is currently under management review.

Del #2: In addition to participating with EPA, Tetra Tech, and UofA on the Santa Cruz project, ADEQ continued TMDL data collection and analysis on 34 TMDLs for 16 waterbody segments. Activities included data collection and analysis of water, sediment, equipment installation and maintenance, and interacting with stakeholders. Delist reports were developed for the Gila Pesticides and East Verde selenium and boron listings.

Del #3: No TIPs listed in Table 1.3.8- 4 were completed. However, the Middle Gila River does contain an abbreviated TIP that reviews some irrigation water management strategies that could be implemented to reduce selenium and boron. Efforts were focused on developing a project to implement the new combined TMDL/WQIG WIP process. Initially the Silver Creek or a subwatershed of the upper Gila River watershed was targeted but ultimately the upper Santa Cruz watershed was chosen. Staff reviewed and commented on Tetra Tech's and UofA's Santa Cruz reports, participated in watershed group meetings, and coordinated efforts internally.

Del #4: Effectiveness monitoring samples were collected from Pinto Creek, Tonto and Christopher Creeks and the LCR. Pinto Creek continues to show improvements based upon the new cap and stormwater drainage design implemented at the Gibson mine. Tonto and Christopher creeks appear to have reduced nutrient loading but continue to have routine *E. coli* exceedances during storm flows. Additional twice a month sampling will take place in FY15 Q1 to confirm the nutrient reductions. The Boulder Creek Hillside mine LTP project is finally moving forward. ADOA was awarded 319 monies to have their contractor determine access road feasibility and cap design. BLM is moving forward with their project (update to be given in FY15 Q1) and ADEQ compliance section continues to work with the owner of the MTP. TMDL and WQIG staff completed the field evaluation of 23 previously completed 319 grant projects. We are still developing the evaluation scoring matrix. Progress on meeting the performance measure is tracked on the Master Target List and depicted on the Unit Q-boards. The methodology for the measure performance has not been finalized but will be shared with EPA upon completion. There was no sampling of the NWQI watershed as we have not been informed that any projects have been awarded. ADEQ will attempt to characterize pre-implementation conditions once we know where projects will be located.

Del #5: First and second quarter updates were completed and provided to EPA.

Del #6: Constructive, effective and regular communication between EPA R9 and ADEQ occurred throughout the fiscal year. EPA supported ADEQ efforts to continue the integration of the NPS/319 and TMDL programs. Monthly combined 319 and TMDL calls between EPA and ADEQ occurred throughout the year.

Del #7: Although project status was not tracked via GSDs, EPA was given updates throughout the year via monthly calls and workplan table updates.

1.3.8-1 & Deliverable 5 TMDL Projects Quarterly Status

Segment (impairment)	Milestone (target)	Actual/Comments
Watson Lake (Nitrogen, low D.O., high pH)	30-day public comment period begins (9/1/13)	Q1- Draft TMDL is under review by management. WLA language was agreed upon with WQD Management and Permitting Units. ADEQ will meet with City of Prescott in Q2. Q2- ADEQ met with the City of Prescott and their contractor on 10/29. Draft TMDL under WQD management review. Expected to be share with EPA and COP in Q3. Q3- Draft TMDL public comment period began on April 1st Q4- Public comment period ended May 1. 10 sets of comments were received. Responses and TMDL revisions have been ongoing.
	45-day AAR Notice begins (12/1/13)	
Granite Creek- headwaters to Willow Creek (Low D.O., E. coli)	30-day public comment period begins (10/1/13) 45-day AAR Notice begins (1/1/14) Submit final to EPA (4/1/14)	Q1- Draft TMDL Report delayed by issues with the Watson Lake draft TMDL. Additional watershed sampling events took place to fill data gaps identified in the modeling and review process. Q2- TMDL was drafted and will be sent through WQD management review after Watson Lake TMDL. Q3- Public comment period will open on June 2 nd Q4- Due to extent and nature of comments received during the Watson Lake Public comment period the release of the Granite Creek report was delayed.
Miller Creek (E. coli)	Submit final to EPA (4/1/14) Same schedule as Granite Creek TMDL	Q1- see Granite Creek above Q2- see Granite Creek above Q3- see Granite Creek above Q4- see Granite Creek above
Manzanita Creek (E. coli)	Same schedule as Granite Creek TMDL	Q1- see Granite Creek above Q2- see Granite Creek above Q3- see Granite Creek above Q4- see Granite Creek above
Alamo Lake (Hg in fish tissue)	Complete Data Summary Report (10/1/13)	Q1- Outline for Data Summary developed. Q2- No activity on project Q3- see Granite Creek above Q4- No activity on project
Lyman Lake (Hg in fish tissue)	Complete Data Summary Report (1/1/14)	Q1- no activity on project Q2- no activity of project, will be initiated in 3rd Qtr. Q3- no activity on project Q4- No activity on project

Parker Canyon Lake (Hg in Fish Tissue)	Complete Data Summary Report (9/1/13)	Q1- off target, will be completed in Q2. Q2- TMDL report reworked into data summary report Q3- no activity on project
Queen Creek- headwaters to Superior WWTP (Cu, Pb)	Control to A. T. (D. J. (11/1/12)	Q4- No activity on project Q1- Internal discussions led to additional questions for contractor. Awaiting clarification. Q2- Continued internal discussions on appropriate course of action Q3- no action on project Q4- No activity on project
	Complete draft TMDLs (11/1/13)	Q4- No activity on project
	Public Comment Period begins (1/15/14)	
	45-day AAR Notice begins (5/30/14)	
Queen Creek- Superior WWTP to Potts Canyon (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Queen Creek- Potts Canyon to Whitlow Dam (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Queen Creek- Potts Canyon to Whitlow Dam (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Arnett Creek- Headwaters to Queen Creek (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-991) (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-1843) (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above Q4- see Queen Creek above
Unnamed Trib to Queen Creek (-472) (Cu)	Same schedule as Queen Creek	Q1- see Queen Creek above Q2- see Queen Creek above Q3- see Queen Creek above Q4- see Queen Creek above
Gila River Pesticide Delist	Complete delist report (9/30/13)	Q1- Draft delist report was completed in August. WQD management is reviewing document prior to sharing with stakeholders in Q2 Q2- Draft document shared with EPA, and stakeholder (including tribes). Will propose delisting reaches in 2012/14 IR. Q3- no additional activity on project Q4- no additional activity on project

1.3.8-2 Continued TMDL Development Status Table

Segment	Impairment	Purpose	Comments
Bear Canyon Lake	Low pH	Prepare data analysis to support delist report	Q1- Sampling event took place in August Q2- No action on project Q3- Draft data analysis report completed Q4- Additional sampling event occurred.
Rose Canyon Lake	Low pH	Prepare data analysis to support delist report	Q1- No action on project Q2- No action on project Q3- Draft data analysis report completed Q4- No sampling event took place
Pinto Creek- headwaters to Ripper Spring*	Cu	TMDL report development is on hold until adoption of SSS	Q1- No action of project Q2- Received permission from Governor's office to proceed with WQS triennial review Q3- no activity on project Q4- WQD Deputy Director's office continued drafting proposed rule- making language to include Pinto SSS
Pinto Creek- Ripper Spring to Roosevelt Lake*	Cu	TMDL report development is on hold until adoption of SSS	Q1- No action of project Q2- Received permission from Governor's office to proceed with WQS triennial review Q3- no activity on project Q4- see Pinto Creek above
Haunted Canyon- Headwaters to Pinto Creek*	Cu	TMDL report development is on hold until adoption of SSS	Q1- No action of project Q2- Received permission from Governor's office to proceed with WQS triennial review Q3- no activity on project Q4- see Pinto Creek above

Five Point Mountain- Headwaters to Pinto Creek*	Cu	TMDL report development is on hold until adoption of SSS	Q1- No action of project Q2- Received permission from Governor's office to proceed with WQS triennial review Q3- no activity on project Q4- see Pinto Creek above
Mule Gulch- headwaters to Above Lavender Pit*	Cu	Review modeling report and consult with FMI to determine SSS/TMDL approach	Q1- Internal discussions continued regarding the direction that the project should take. Based on work completed by FMI additional monitoring is needed to determine effectiveness of projects and current WQ status. Q2- Briefly discussed options with FMI representatives. Will continue discussions in Q3 Q3- Sent letter to FMI Copper Queen requesting meeting to discuss coordinating sampling effort. No response has been received Q4- FMI responded to request and proposed a meeting to discuss to project to be schedule the FY15 Q1.
Mule Gulch- Above Lavender Pit to Bisbee WWTP*	Cu, pH	Review modeling report and consult with FMI to determine SSS/TMDL approach	Q1- see Mule Gulch above. Q2- see Mule Gulch above. Q3- see Mule Gulch above. Q4- see Mule Gulch above
Mule Gulch- WWTP to Highway Bridge*	Cd, Cu, pH, Zn	Review modeling report and consult with FMI to determine SSS/TMDL approach	Q1- see Mule Gulch above. Q2- see Mule Gulch above. Q3- see Mule Gulch above. Q4- see Mule Gulch above
Brewery Gulch- headwaters to Mule Gulch*	pH .	Review modeling report and consult with FMI to determine SSS/TMDL approach	Q1- see Mule Gulch above. Q2- see Mule Gulch above. Q3- see Mule Gulch above. Q4- see Mule Gulch above

Gila River-Centennial Wash to Gillespie Dam	Se, B	Continued monitoring to inform TMDL development	Q1- Additional low flow sampling was conducted to determine if certain canals/ag return flows are sources. Q2- Public meeting held on 12/12. Low flow sampling will continue in Q3, data analysis initiated Q3- Additional source water samples were collected; data analysis continued with agriculture return flows being the primary source Q4- Draft TMDL report completed and peer reviewed, under review by TMDL supervisor
Gila River-Coyote Wash to Fortuna Wash	Se, B	Continued monitoring to inform TMDL development	Q1- Additional storm samples were collected. Q2- No additional samples were collected, data analysis initiated Q3- Additional flow sampling event took place Q4- Reach will be split based upon hydrologic conditions observed throughout the project. ADEQ will propose delisting both Se and B based on project monitoring data.
East Verde River-American Gulch to Verde River	As, B	Continued monitoring to determine if a TMDL or delist report is necessary	Q1- No additional samples were collected. Q2- No additional sampling, data analysis initiated Q3- Boron delist report draft was initiated. Data analysis for As continued Q4- Boron delist report completed and under review by TMDL supervisor
East Verde River-Ellison Creek to American Gulch	Se	Continued monitoring to determine if a TMDL or delist report is necessary	Q1- Storm samples collected; no exceedances were observed. Potential delist. Q2- No additional sampling, data analysis initiated Q3- Delist report drafted and review by Unit Manager Q4- Delist report completed
Big Bug Creek Watershed Project	Metals	Monitor to determine pre- remediation conditions and develop a TMDL Lite	Q1- Several storm events were sampled. Results confirmed that mines targeted by USFS degrade water quality. Q2- Data collection continued and data analysis initiated Q3- Additional stormwater samples were collected Q4- No additional water quality data were collected. Data analysis and summary report began.

1.3.8-3 TMDL Effectiveness Monitoring Status Table

Segment .	Impairment	Purpose	Comments
Boulder Creek	As, Cu, Zn	Measure W/WQD PM	Q1- Continued coordinating LTP project with EPA and state agencies. Still developing state MOU and ISA. Q2- EPA Superfund funds no longer available for road construction. State will evaluate feasibility of moving forward in early Q3 Q3- Received Draft Form of Easement from FMI Bagdad formalizing their support for the LTP remediation project. ISA and MOU with ASLD and ADOA will be completed by April 18th. Meet with URS (ADOA) contractor to discuss cost estimates and contingencies. Once ISA is signed they will begin work on access road planning and cost contingency reduction. Q4- ISA has been signed, funds obligated to ADOA and URS has begun work. ADEQ and State Land are scheduled to meet with BLM in Q1 FY15 to get a status update.
Pinto Creek	Cu	Measure W/WQD PM	Q1- Gibson mine site visit scheduled for early Q2 followed by WQ sampling equipment installation. Q2- Five (5) first flush samplers installed, sampling event collected both grabs and first flush samples Q3- Additional sampling event took place in March. Preliminary results indicate that the copper concentration has been reduced by approximately 75% at the mouth of the Gibson Mine tributary. Q4- No additional samples were collected. Passive sampling equipment maintained and autosampler installed at mouth of Gibson mine tributary.

Turkey Creek	Cu, Pb	Measure W/WQD PM	Q1- No additional monitoring was conducted. Provided EPA R9 with additional information for success story development. Q2- No additional action on project Q3- Tried to access the Blue Belle Mine but could not due to a locked gate. Will follow up with permits to determine status of mine. Q4- No additional sample were collected; site was added to MSGP nonfiler project list
Tonto and Christopher Creeks	Nitrogen and E. coli	WQD PM	Q1- Completed intensive summer sampling effort (10 sampling events). Data analysis will continue into Q2 as lab results are received. Q2- Continued data analysis Q3- Data summary report has been drafted, reviewed and is being revised Q4- Revised report under TMDL. Supervisor review. Will resume summer sampling in FY15 Q1.
Little Colorado River	Turbidity	WQD PM	Q1- TMDL and 319 staff conducted Winema site visit. This watershed will be used to develop BMP effectiveness monitoring protocols for 319 projects. Q2- TMDL and WQIG staff meet with NCD and Coyote Creek grantee to review project status Q3- Staff developed field BMP evaluation forms. Will test forms in Q4 Q4-Samples collected to evaluate Crosswhite projects.
Coordinate Monitoring of NWQI watershed		NWQ1	Q1- Met with NRCS and R9 NPS to discuss priority watersheds- LCR and San Pedro. Will develop sampling plans once we complete Conservation Cooperator Agreement with NRCS. Q2- No additional action Q3- NRCS agreement was finalized and project data was forwarded to ADEQ. Planning will continue into Q4 Q4- No additional action on project

Additional WQD PM waters as warranted	WQD PM	Q1- No additional waters identified. Q2- No additional waters identified. Q3- No additional waters identified. Q3- No additional waters identified.
Participate in 319 Grant effectiveness monitoring	WQ1GP Task 1.3.9, #12	Q3- No additional waters identified. Q1- Project will begin in Q2. Q2- Initiated process is Upper LCR watershed, with continue in Q3 Q3- Continued Upper LCR project Q4- Completed 8 BMP evaluation site visits

Measure W- 2002 Baseline Waters
WQD PM- Water Quality Division Performance Measure
NWQI- NRCS National Water Quality Initiative

1.3.8-4 TMDL Implementation Plans Table

Segment	Comments
Lake Mary Lake	Q1- No action of project Q2- Will be peer reviewed in Q3 Q3- Peer review began Q4- No additional activity on project
Parker Canyon Lake (1 TIP)	Q1- No action of project Q2- Project summary drafted, TIP will not be drafted unless stakeholder support is generated Q3- No additional activity on project Q4- No additional activity on project
Cortez Lake Management Plan	Q1- No action of project Q2- No action of project Q3- No action of project Q4- No action of project
Queen Creek (multiple reaches, 1 TIP)	Q1- No action of project Q2- No action of project Q3- No action of project Q4- No action of project
Coordinate efforts with WQIGP in new targeted watersheds	Q1- Still waiting for UofA to complete modeling effort in Silver Creek and Upper Gila watersheds to determine which areas to target. Q2- UofA modeling update still pending Q3- No update on upper Gila modeling. Focus has shifted to Upper Santa Cruz watershed. Tetra Tech modeling report will be completed and WIC kickoff meeting will be held in April. Q4- WQ monitoring training was attempted but there was a lack of interest from the watershed group. UofA began drafting SAP with ADEQ input. SAP will be presented to group and input sought prior to finalizing it.